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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/519,938	12/29/2004	Keizo Ilda	2004_1891A	5080
513 . 75	11/01/2005		EXAM	INER
WENDEROTH, LIND & PONACK, L.L.P.			LEYKIN, RITA	
2033 K STREE SUITE 800	TN. W.		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20006-1021			2837	
			DATE MAILED: 11/01/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

			KV/			
	Application No.	Applicant(s)	——— <i> </i> /-			
	10/519,938	ILDA, KEIZO				
Office Action Summary	Examiner	Art Unit				
-	Rita Leykin	2837				
The MAILING DATE of this communication a			ss			
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may od will apply and will expire SIX (6) MO tute, cause the application to become	IICATION. a reply be timely filed ONTHS from the mailing date of this common ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	·					
2a) ☐ This action is FINAL . 2b) ☑ T	his action is non-final.					
3) Since this application is in condition for allow	wance except for formal ma	atters, prosecution as to the me	erits is			
closed in accordance with the practice unde	er <i>Ex par</i> te Quayle, 1935 C	D. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-20</u> is/are pending in the applicati	on.					
4a) Of the above claim(s) is/are withd						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-20</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	d/or election requirement.					
Application Papers						
9) The specification is objected to by the Exami	iner.					
10)⊠ The drawing(s) filed on <u>29 December 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the	he drawing(s) be held in abey	ance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corr	ection is required if the drawir	g(s) is objected to. See 37 CFR 1	l.121(d).			
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	ed Office Action or form PTO-	152.			
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for forei a)⊠ All b)□ Some * c)□ None of:	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
1.⊠ Certified copies of the priority docume	ents have been received.					
2. Certified copies of the priority docume	ents have been received in	Application No				
3. Copies of the certified copies of the pr	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bure	eau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 		o(s)/Mail Date f Informal Patent Application (PTO-152	2)			
Paper No(s)/Mail Date <u>12/29/04</u> .	6) Other:		,			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 1, 3-7, and 9, 11-15, 17, 18 are rejected under 35 U.S.C. 102(a) as being anticipated by Yanashima et al. US # 2002/0140309.

Yanashima et al. teach a synchronous induction motor and drive unit installed in and hermetic electric compressor. The limitations of claim 1 and 9 regarding motor structure, such as main and auxiliary stator windings, rotor yoke with embedded permanent magnet and secondary conductor in vicinity of a periphery of the yoke, see [002].

In Fig. 54 and 56 Yanashima et al. show a starter circuit for motor 2 having starting capacitor 48, connected in series with auxiliary winding 7b and a switching unit 61 the switching operation described in [0226]-[0229];

With respect to claims 3-5 and 11-13, 17, 18, Yanashima et al. teach in [0233]- [0236] a bimetal switch 64 having positive temperature coefficient thermistor.

With respect to claims 6, 7, 14 and 15 in Fig. 56 Yanashima et al. show the relay 61 having coil 61a, that is connected in series with main winding 7a and a movable contact 61b, provided with a movable terminal connection and fixed terminal connection. The claimed description of the relay plunger is inherent.

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 2, 8, 10, 16, 19, and 20, are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanashima et al. US # 2002/0140309 and Nacewicz et al. US # 5,617,001.

The limitations of base claims 1 and 9 have been addressed in the rejection above.

With respect to claims 2 and 10 Yanashima et al. do not teach presence of triac in the switching unit. However, Nacewicz et al. in Fig. 3 show ac motor starting control circuit utilizing trigger semiconductor switching device including triac Q1 and resistor Pa that is interpreted as a trigger circuit, according to applicant's disclosure on page 6, lines 25-27.

With respect to claims 8 and 16, 19, 20, Yanashima et al. teach in [0233]-[0236] a bimetal switch 64 having positive temperature coefficient thermistor.

Hence, it has been obvious to one of ordinary skills in the art, at the time invention was made to combine Nacewicz et al. teaching on utilizing of the trigger semiconductor switching device in form of a triac switch serially connected to the auxiliary winding of the motor and Yanashima et al. teaching on control of synchronous induction motor in an electric hermetic compressor including thermal protecting means in form of thermistor having positive temperature coefficient (PTC) of resistance

connected to the gate terminal of the triac for controlling the flow of triggering current and for cutting off the supply of current to the electric unit in response to a predetermined temperature rise.

The reason is to enable the automatic restarting of the motor.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rita Leykin whose telephone number is (571)272-2066. The examiner can normally be reached on Monday-Friday 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Martin can be reached on (571)272-2107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Rita Leykin **Primary Examiner** Art Unit 2837

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R.L.